OF LABORATORY TEST ON BORING

NAGE PUMP STATION - BEN ME COC 2

BORING No : UB(2) - 01

% PASSING					Natural water content w (%)	Unit weight		Specific gravity Gs	Porosity n (%)	Void ratio e_o	Degree saturation S (%)	Atterberg limit			Liquidity index B	Unconfined compression q_u (Kg/cm²)	Compression index Cc	Consolidation				REMARK
#30	#50	#100	#200			Natural γ (g/cm³)	Dry γ_d (g/cm³)					Liquid limit LL (%)	Plastic limit PL (%)	Plastic index PI (%)				Coefficient of consolidation Cv (cm²/s)	Preconsolidation pressure Pc (Kg/cm²)	Coefficient of volume compressibility m_v (cm²/g)	Coefficient of permeability k_{20} (cm/s)	
0.6	0.3	0.15	0.075	0.005																		
(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(29)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)
		100	96.8	66.7	91.66	1.358	0.709	2.601	0.73	2.671	89.3	87.1	44.7	42.4	1.11	0.096	1.0426	1.93E-04	0.263	1.67E-04	3.29E-08	
		100	97.3	69.1	95.24	1.408	0.721	2.612	0.72	2.622	94.9											
		100	98.0	71.1	94.15	1.415	0.729	2.589	0.72	2.552	95.5	97.8	44.2	53.6	0.93	0.137						
		100	96.9	69.8	90.97	1.447	0.758	2.602	0.71	2.434	97.2											
		100	98.4	70.1	93.15	1.428	0.739	2.595	0.72	2.510	96.3	97.8	47.0	50.8	0.91	0.132	0.9573	2.23E-04	0.213	1.67E-04	4.06E-08	
		100	97.8	72.8	94.53	1.459	0.750	2.611	0.71	2.481	99.5											
		100	98.7	73.1	96.06	1.449	0.739	2.581	0.71	2.492	99.5	95.4	49.2	46.2	1.01	0.187						
		100	98.8	68.1	99.69	1.326	0.664	2.585	0.74	2.893	89.1	93.8	49.5	44.3	1.13	0.094	1.0772	1.68E-04	0.223	1.68E-04	3.00E-08	
		100	96.7	69.3	93.51	1.428	0.738	2.612	0.72	2.540	96.2											
		100	98.1	67.5	89.05	1.413	0.747	2.574	0.71	2.444	93.8	90.4	49.7	40.7	0.97	0.168	1.0269	2.47E-04	1.333	1.63E-04	4.58E-08	
		100	96.1	50.4	82.15	1.461	0.802	2.614	0.69	2.259	95.1											
		100	95.2	33.2	79.01	1.448	0.809	2.596	0.69	2.209	92.8	92.5	49.2	43.3	0.69							
93.9	92.2	92.2	92.1	51.5	72.95	1.452	0.840	2.590	0.68	2.085	90.6	75.3	43.1	32.2	0.93	0.187						
	100	93.2	89.2	55.1	75.89	1.498	0.852	2.597	0.67	2.049	96.2											
	100	97.8	92.9	59.6	82.50	1.501	0.822	2.585	0.68	2.143	99.5	71.7	37.4	34.3	1.31	0.185						
	100	95.9	93.2	68.1	86.12	1.458	0.783	2.589	0.70	2.305	96.7											
		100	97.7	70.0	91.44	1.381	0.721	2.594	0.72	2.596	91.4	72.6	46.6	26.0	1.72							
85	32.4	19.5	17.5	12.0	40.91	1.704	1.209	2.663	0.55	1.202	90.6	18.8	10.9	7.9	3.80							
97.6	91.7	82.4	74.5	35.7	20.22	1.943	1.616	2.665	0.39	0.649	83.0	22.2	13.6	8.6	0.77							
91.1	88.3	86.5	85.1	35.6	24.33	1.929	1.552	2.687	0.42	0.732	89.3	26.8	17.4	9.4	0.74							
60.6	21	12.3	10.9	7.3	14.87	1.844	1.605	2.648	0.39	0.650	60.6											
70.2	27.1	10.4	7.1	3.5	16.52	1.856	1.593	2.656	0.40	0.667	65.7											

SUMMARY OF LABORATORY TEST ON BORIN

DRAINAGE PUMP STATION - BEN ME COC 2

Scale (m)	Boring number	Sample number	Depth (m)	Symbol	Soil class.	SAMPLE DECRIPTIOION	SPT (N)	SIEVE ANALYSIS , % PASSING											Natural water content w (%)	Unit wei	
								Inch												Natural γ (g/cm³)	
								3/4"	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200				
								mm													
								19	12.5	9.5	4.75	2.36	1.18	0.6	0.3	0.15	0.075	0.005			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	
1	UB(2)-02						0														
2		2-1-0	1.6 - 2.0		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	0									100	97.2	45.9	70.25	1.559	
3							0														
4		2-1	3.5-4.1		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	0									100	96.5	44.1	66.49	1.508	
5							0														
6		2-1-1	5.6 - 6.0		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	0									100	96.7	55.2	72.15	1.459	
7							0														
8		2-2	7.5-8.1		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	0									100	96.9	66.6	97.32	1.366	
9							0														
10		2-2-1	9.6 - 10.0		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	0									100	97.2	69.4	95.28	1.401	
11							0														
12		2-3	11.5-12.1		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	0									100	98.3	71.8	93.86	1.376	
13							0														
14		2-3-1	13.6 - 14.0		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	0									100	94.8	65.2	80.27	1.401	
15							0														
16		2-4	15.5-16.1		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	0					100	99.1	98.9	98.7	95.5	90.7	49.1	72.50	1.439	
17							1														
18		2-4-1	17.6 - 18.0		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	1					100	97.2	97.2	95.6	94.2	88.3	45.2	68.24	1.463	
19							1														
20		2-5	19.5-20.1		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	1					100	98.3	98.1	97.5	91.1	84.5	42.6	67.20	1.456	
21							2														
22		2-5-1	21.6 - 22.0		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	1					100	96.8	91.3	85.7	79.2	75.1	43.5	55.67	1.542	
23							2														
24		2-6	23.5-24.1		OH	Very soft, high plasticity blackish grey ORGAGANIC CLAY.	2					100	97.6	92.7	83.1	74.9	73.3	45.0	51.13	1.579	
25							3														
26		2-6-1	25.6 - 26.0		OH	Soft, high plasticity blackish grey ORGANIC C CLAY.	3									100	96.7	73.2	64.89	1.487	
27							3														
28		2-7	27.5-28.1		OH	Soft, high plasticity blackish grey ORGANIC C CLAY.	4									100	97.1	72.0	65.77	1.466	
29							4														
30		2-7-1	29.6 - 30.0		OH	Soft, high plasticity blackish grey ORGANIC C CLAY.	4									100	98.3	71.4	63.97	1.501	